

ABSTRACT

DEVICE AND METHOD TO COMPRESS DESTINATION ADDRESSES OF A MULTICAST  
MESSAGE

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To compress a list of destination addresses (A.B.C.D, A.B.C.E, A.F.G.H) of a connectionless multicasted message, addresses (A.B.C.D, A.B.C.E) that have a common prefix (A.B.C) are replaced with a single compound address (A.B.C{D,E}). This compound address (A.B.C{D,E}) is constituted by the common prefix (A.B.C) and a list of suffixes ({D,E}) of these addresses (A.B.C.D, A.B.C.E) that have a common prefix (A.B.C). The compression technique may be applied iteratively and in addition to reducing the overhead required for multicasting, enables faster routing table look-up.

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